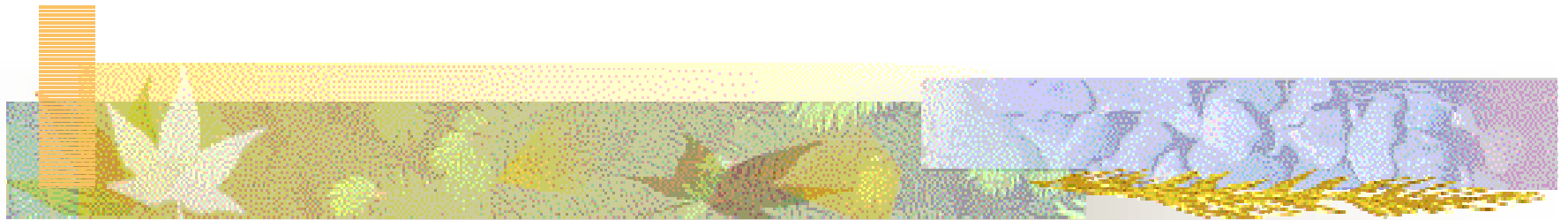


# Town Council Meeting

## May 27, 2003



# Sanitary Sewer Plan



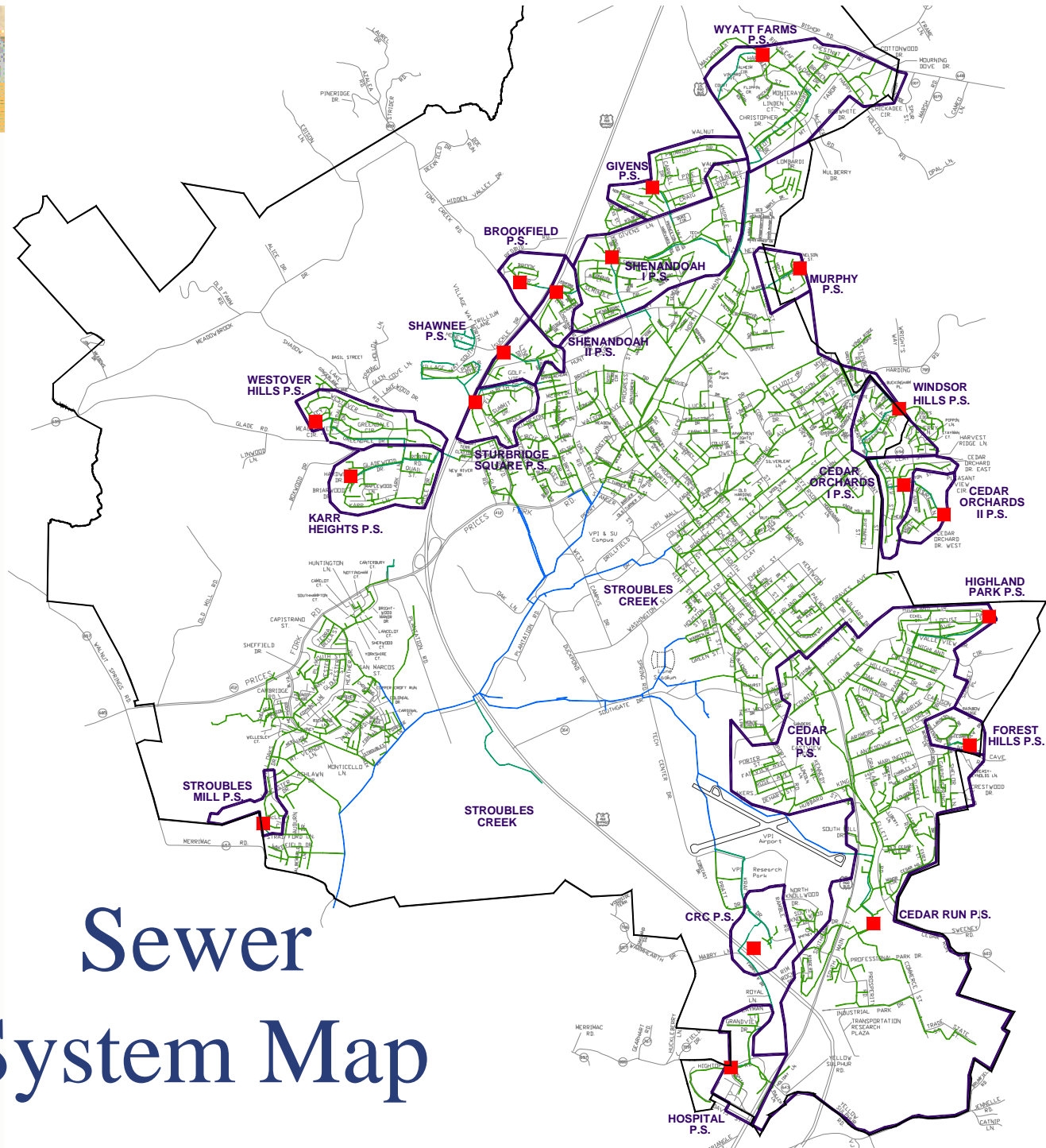
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# Sewer Capacity Concerns

- Town operates and maintains collection system.
- Authority operates trunk system and plant.
- Both must have adequate capacity to receive flow.
- Town must plan, construct, and operate the sewer system to maintain adequate system capacity.
- There are imminent areas of concern

# Sewer System Map





# Sewer System

- 4 main branches in the sewer collection system.
- Critical Capacity now
  - North End
  - University Mall



# Why Now?

- Sewage Flow Meter.
- Sewer System Model analysis.
- Pending development projects seeking available capacity in system.
- Desire to avoid sewage overflows and system backups.



# Approach for Discussion

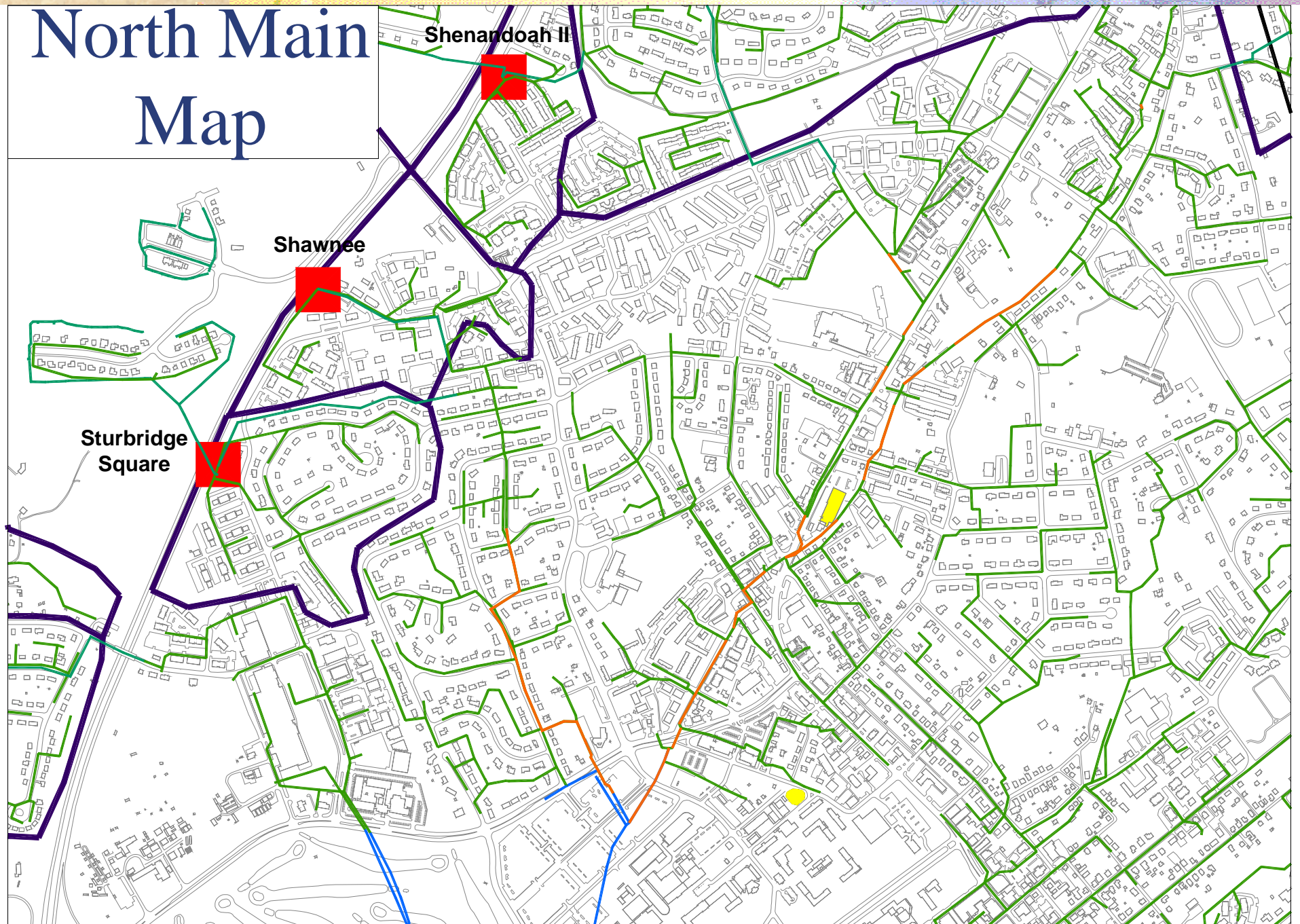
- Location:
  - North Main/ Giles
  - University Mall
- Condition and Causes
- Solution Options and Costs
- Time Considerations



# North Main/ Giles Area



# North Main Map





# North Main Trunk - Condition

- Sections of Town Sewer at Capacity
- Significant flow received from Toms Creek area pump stations
- Upgrades Required for Current Development
- Sanitation Authority Trunk at Capacity



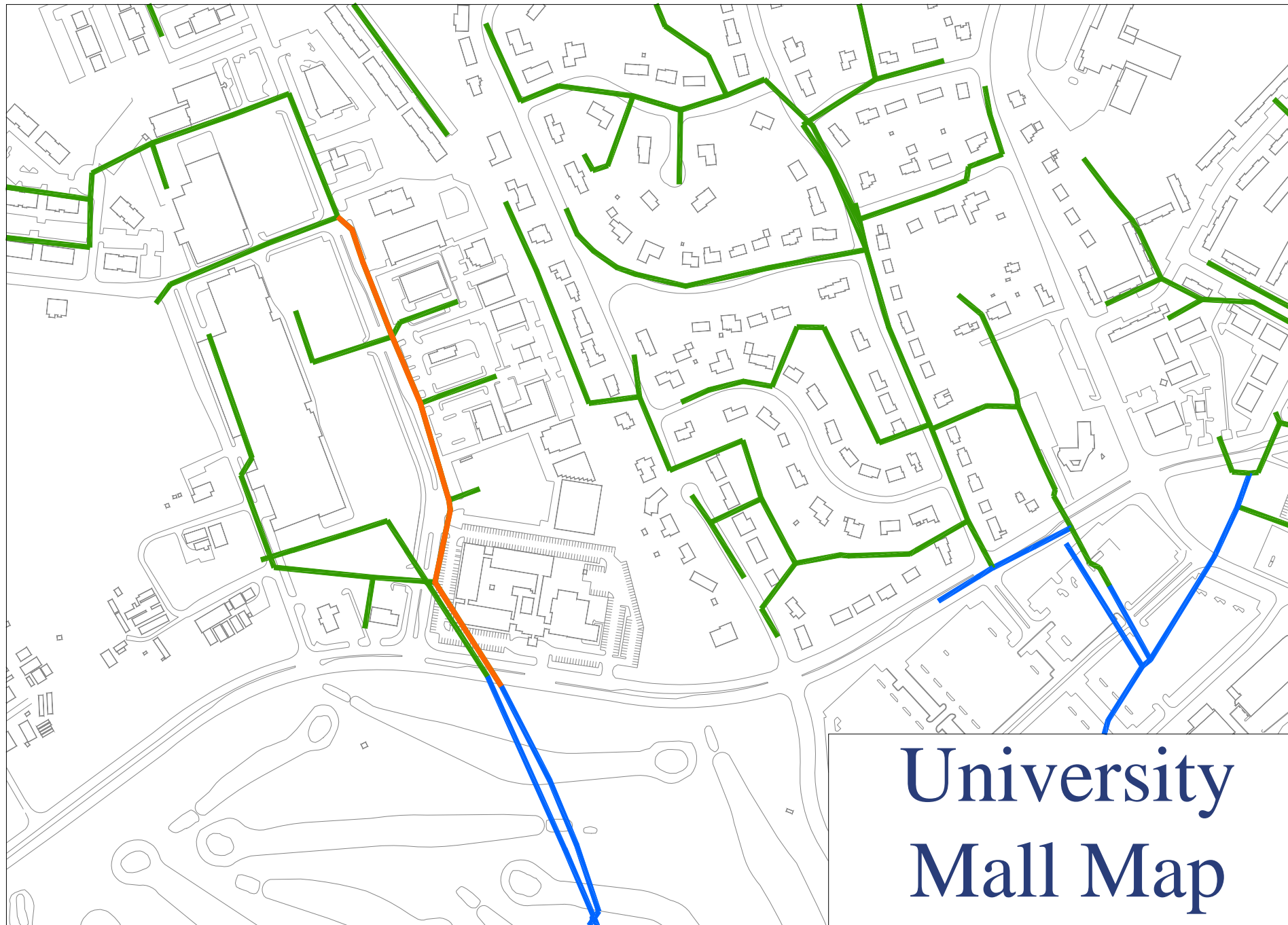
# North End Sewer – Future Issues

- Sanitary Sewer Overflows, NOV's
- North End Building Permits, Subdivisions, and Site Development Constrained by Capacity
- Pump Station Upgrades Constrained by Capacity
- Decision on Direction Needed to Avoid Redundant Expenditures



# University Mall Area





# University Mall Map



# University Mall Trunk

- Condition

- Sewer at or near capacity, extremely flat

- Potential Future Issues

- Desired Commercial Expansion at University Mall is Constrained



# Solutions?

## Long Term Impact (50 year +):

### ■ Upgrade Pipes in Critical Sections

- Replace Sewer Pipes in built areas of Town (North Main, Giles Road)
  - **PROHIBIT** Future Sewer Service in Toms Creek area.

**OR**

### ■ Reduce Sewage Flow in Critical Sections (redirect flow from existing pump stations)

- Toms Creek Sewer – to carry flow from existing neighborhoods in Toms Creek area now,
  - **ALLOW** Future Sewer Service in Toms Creek area
- Establish treatment plants at each pump station.
  - **PROHIBIT** Future Sewer Service in Toms Creek area.



# Pump Stations -> Treatment Sites

- Would reduce flow in critical sewer sections
- Not a reasonably comparable option
  - Environmental Regulations Limit Options
  - Developed areas of Town Limit Land
  - No tributary for discharge of treated effluent
  - Insufficient Land Area for Dispersal to Ground of treated effluent
  - Significantly Greater Capital and Operational Cost for Advanced Technology to address these constraints.

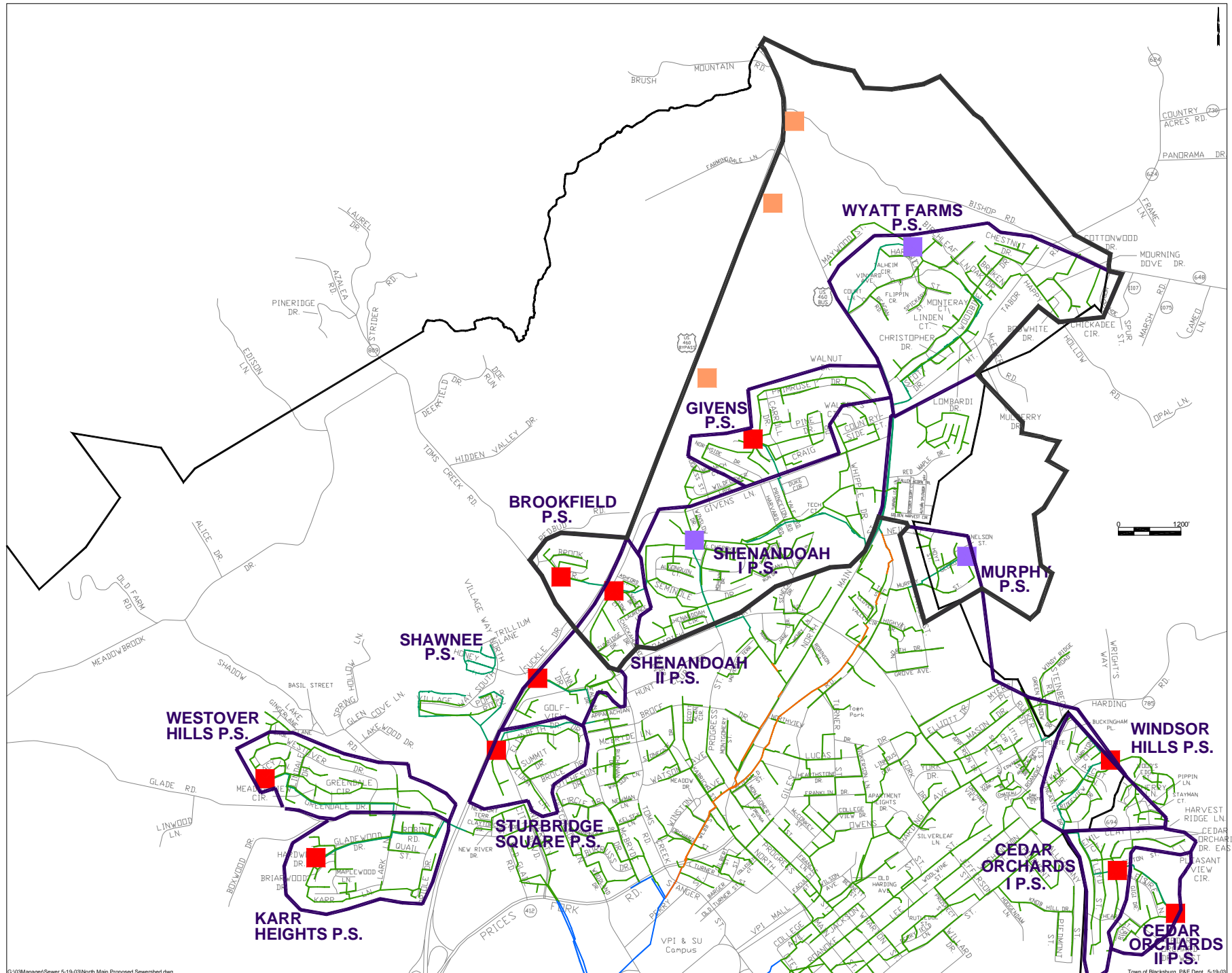


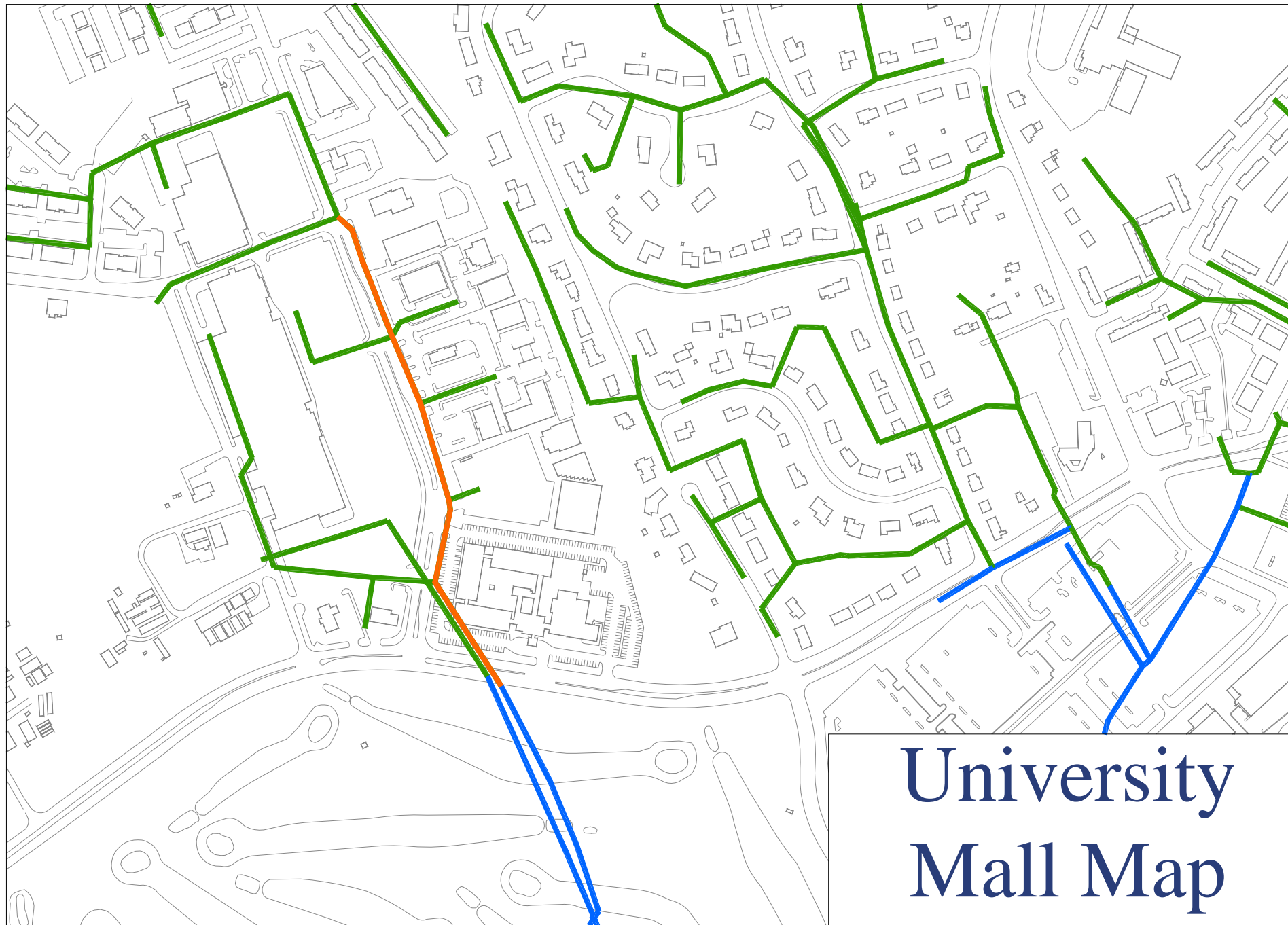


# Upgrade Existing Sewer Pipes

*Refer back to main information page for updated rate information listed in the June 17 Council presentation*

- Replace Sewer in Urban Area of Town While Maintaining Service
  - North Main St (Kabrich to PolyScientific), Webb St., Giles Road (McDonald St. to N. Main - in Stroubles Creek Upper Reaches) (\$3.2 m, 2-3 years)
  - University Mall area – (\$0.7 m, 1 year)
- Requires Associated Sanitation Authority Main Replacement through VT Campus (\$2 m.)
- Allows Build Out per Town Comprehensive Plan East of Bypass.
- Prohibits ANY sewer service expansion west of Bypass, North of Prices Fork.





# University Mall Map

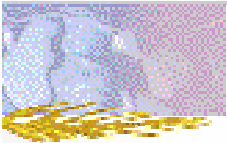
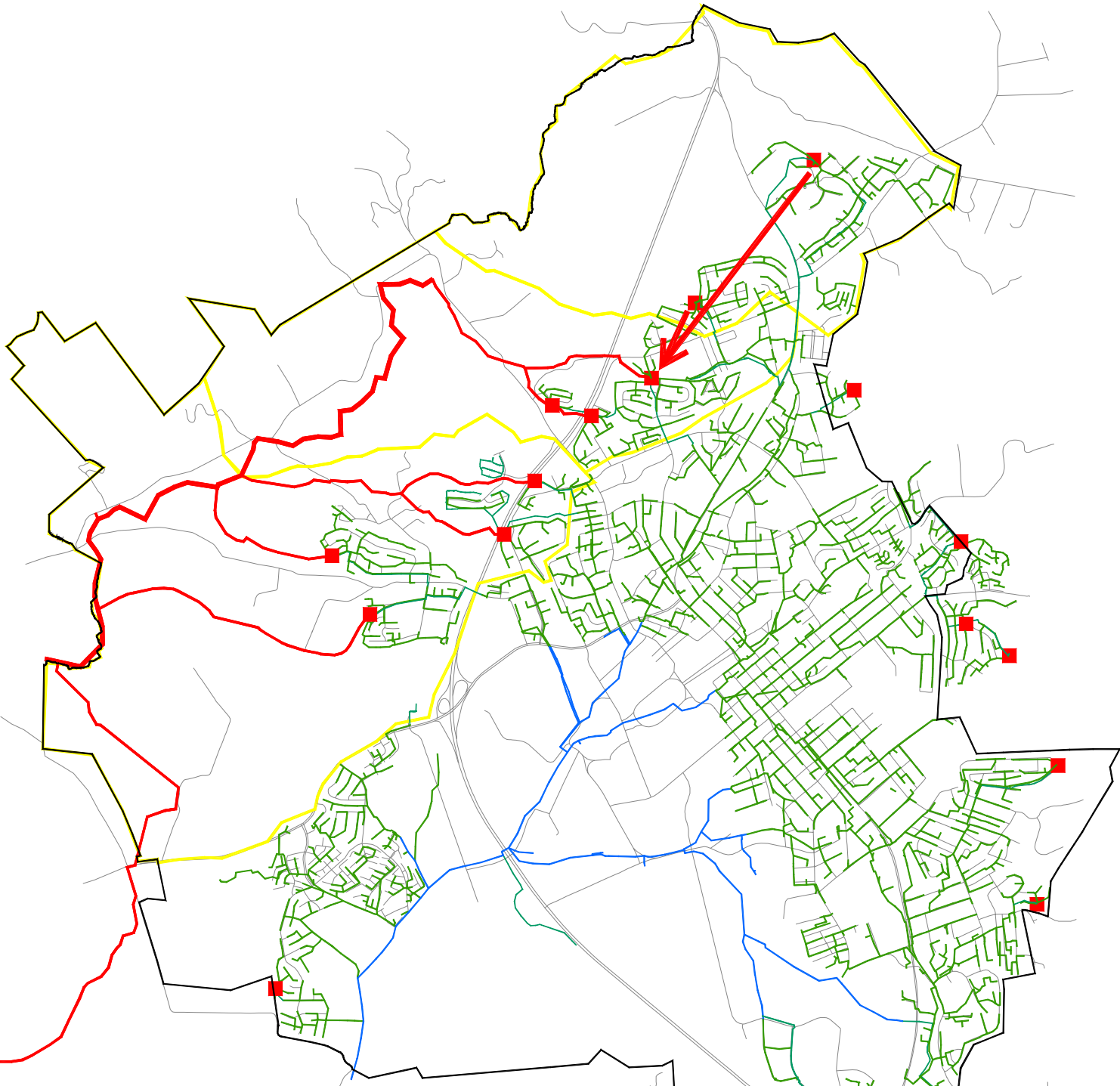


# Reduce Sewage Flow in Critical Sections – Divert Pump Stations

*Refer back to main information page for updated rate information listed in the June 17 Council presentation*

- Requires construction of Toms Creek Sewer, modified. (\$11.2 m., 1-2 years)
- Addresses current capacity issues.
- Allows for future sewer service expansion if desired.
- Does not require Sanitation Authority upgrades.
- Does not require N. Main/ Giles sewer upgrades








## North End Sewer- Time Considerations

- Imminent Kabrich St. area Sewer Main Replacement pending.
- Subdivision, Site Plan proposals East of Bypass pending.
- Pump Station Replacement, Upgrade and Approval decisions pending
- Building Permits for Applications which increase sewer flow should not be approved until a project is initiated to provide the needed sewer capacity.



# Upgrade Existing Sewer (\$6m), OR Build Toms Creek Sewer (\$11.2m): Factors to Consider

*Refer back to main information page for updated rate information listed in the June 17 Council presentation*

- Long Term Goals- Comprehensive Plan
- Public Input
- Capital and Maintenance Cost
- Construction Impact
- Time



# Approach to Decision

- Public Input to Town Council

Special Town Council Meeting

Tuesday, June 24, 2003

Town Council Chambers

4 p.m. to 6:30 p.m.

- Town Council may consider decision :

Town Council Meeting

Tuesday, July 8, 2003

Town Council Chambers

7:30 p.m.





# Additional Information?

## ■ Town Council Work Sessions

- June 3, 2003, 11 a.m.
  - Provide Staff Direction on Information Desired
- June 17, 2003, 11 a.m.
  - Additional Information Presented to Town Council

## ■ Special Town Council Meeting

- June 24, 2003, 4 p.m.
  - Information presented to Public

# Sanitary Sewer Plan



Town Council Meeting  
May 27, 2003

# Town Council Meeting

## May 27, 2003

